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Terms	Documents
5649196.uref.	30

Database:

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L41: Entry 23 of 30

File: USPT

Oct 12, 1999

US-PAT-NO: 5966730

DOCUMENT-IDENTIFIER: US 5966730 A

TITLE: Backup system for computer network incorporating opportunistic backup by prioritizing least recently backed up computer or computer storage medium

DATE-ISSUED: October 12, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zulch; Richard C.	Orinda	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Dantz Development Corporation	Orinda	CA			02

APPL-NO: 8/ 741620 [PALM]

DATE FILED: October 30, 1996

INT-CL: [6] G06 F 11/20, G06 F 17/30, G06 F 11/16

US-CL-ISSUED: 711/162; 711/4, 711/118, 707/204, 707/202, 707/205, 709/200, 709/203, 395/181, 395/182.02

US-CL-CURRENT: 711/162; 707/202, 707/204, 707/205, 709/200, 709/203, 711/118, 711/4, 714/2, 714/4

FIELD-OF-SEARCH: 711/4, 711/118, 711/162, 711/161, 395/180, 395/181, 395/182.01, 395/182.02, 395/182.03, 395/182.04, 395/200.78, 395/200.3, 395/200.37, 395/680, 395/672, 395/673, 395/670, 707/204, 707/202, 707/205, 709/200, 709/203, 709/100, 709/102, 709/103, 709/300, 340/825.06, 340/825.07, 340/825.08

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-D	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5133065	July 1992	Cheffetz et al.	395/181
<input type="checkbox"/> 5241670	August 1993	Eastridge et al.	711/162
<input type="checkbox"/> 5375232	December 1994	Legvold et al.	711/162
<input type="checkbox"/> 5448718	September 1995	Cohn et al.	711/4
<input type="checkbox"/> 5454099	September 1995	Myers et al.	711/162
<input type="checkbox"/> 5537585	July 1996	Blickenstaff et al.	707/205
<input type="checkbox"/> 5649196	July 1997	Woodhill et al.	707/204
<input type="checkbox"/> 5659614	August 1997	Bailey, III	380/4
<input type="checkbox"/> 5675725	October 1997	Malcolm	395/182.04
<input type="checkbox"/> 5678042	October 1997	Pisello et al.	395/184.01
<input type="checkbox"/> 5751997	May 1998	Kullick et al.	711/162
<input type="checkbox"/> 5758359	May 1998	Saxon	707/204
<input type="checkbox"/> 5778165	July 1998	Saxon	395/182.02
<input type="checkbox"/> 5778395	July 1998	Whiting et al.	707/204
<input type="checkbox"/> 5799322	August 1998	Mosher, Jr.	707/202
<input type="checkbox"/> 5813009	September 1998	Johnson et al.	707/100

## OTHER PUBLICATIONS

Central Point Software, "Central Point Backup, Hard Disk Backup for Windows and DOS", ver. 7, 1991.

Central Point Software, "Central Point Backup, Hard Disk Backup for Windows and DOS", v.7, 1991.

ART-UNIT: 276

PRIMARY-EXAMINER: Asta; Frank J.

ASSISTANT-EXAMINER: Vaughn, Jr.; William C.

ATTY-AGENT-FIRM: Townsend and Townsend and Crew LLP

## ABSTRACT:

A backup system is operated in accordance with a server or intelligent storage data controller containing a pre-written script governing a backup protocol. This script designates the possible source of data for backup that could become visible on the network and the possible storage sets that may be available in the storage repository. Preferably, the script also contains a timetable for when the script should be active, and wrap up interval of time for intelligently terminating a particular backup operation. In operation, the total number of accessible data sources (usually computers) and the total number of storage media destinations (for example available tapes mounted in tape drives) are generated to list possible source to storage paths. Utilizing the script, the possible source to storage paths are prioritized with the least recently backed up source as dated by the available media having first priority for backup. Once prioritization has occurred, backup is initiated in the order of prioritization to the first available of the designated source to storage media paths. This designation of source to media available paths continues down through the prioritized source to storage paths, initiating backup when the source and media are available. As each backup is completed, a new prioritization of source to media paths occurs responsive to location of the last backed up source, with backup occurring on the first available source to media path. Scripts can be tailored to prioritize backups dependent upon time of day. There results a fully automated backup which once programmed does not require constant supervisor monitoring.

17 Claims, 8 Drawing figures

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L39: Entry 12 of 14

File: USPT

Nov 4, 1997

US-PAT-NO: 5684984

DOCUMENT-IDENTIFIER: US 5684984 A

TITLE: Synchronization and replication of object databases

DATE-ISSUED: November 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jones; Anne	Redwood City	CA		
Zarmer; Craig	Mountain View	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Apple Computer, Inc.	Cupertino	CA			02

APPL-NO: 8/ 314951 [PALM]

DATE FILED: September 29, 1994

INT-CL: [6] G06 F 17/30

US-CL-ISSUED: 395/610; 395/611, 395/613, 395/614, 395/616, 395/479, 395/342

US-CL-CURRENT: 707/10; 345/788, 707/100, 707/102, 711/152

FIELD-OF-SEARCH: 395/650, 395/157, 395/600, 395/425, 395/610, 395/611, 395/613, 395/614, 395/616, 395/479, 395/342, 364/408, 364/401, 348/7, 379/207

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4799156</u>	January 1989	Shavit et al.	364/401
<input type="checkbox"/> <u>4961137</u>	October 1990	Augusteijn et al.	364/200
<input type="checkbox"/> <u>5093911</u>	March 1992	Parks et al.	395/600
<input type="checkbox"/> <u>5220501</u>	June 1993	Lawlor et al.	364/408
<input type="checkbox"/> <u>5220657</u>	June 1993	Bly et al.	395/425
<input type="checkbox"/> <u>5241673</u>	August 1993	Schelris	395/600
<input type="checkbox"/> <u>5287447</u>	February 1994	Miller et al.	395/157
<input type="checkbox"/> <u>5303375</u>	April 1994	Collins et al.	395/650
<input type="checkbox"/> <u>5307456</u>	April 1994	MacKay	395/154
<input type="checkbox"/> <u>5307490</u>	April 1994	Davidson et al.	395/650
<input type="checkbox"/> <u>5319455</u>	June 1994	Hoarty et al.	348/7
<input type="checkbox"/> <u>5404505</u>	April 1995	Levinson et al.	395/600
<input type="checkbox"/> <u>5418844</u>	May 1995	Morrissey et al.	379/207

## OTHER PUBLICATIONS

Hao et al., "VIZIR: An Integrated Environment for Distributed Program Visualization", IEEE 1995.  
 Lamb et al.; "Lan-Based Office for the Enterprise, A Case Study", IEEE, 1994.  
 Natale et al., "Dynamic End-to End Guarantees in Distributed Real Time Systems", IEEE, 1994.  
 Gersham et al., "Use of Hypermedia for Corporate Knowledge Dissemination"; IEEE 1993.  
 Haefner, "Method For Building A Hypermedia Information Management Tool", PCT/World Intellectual Property Organization, 10913 World, pp. 1-66, Sep. 20, 1990.  
 Wolf, "The (Second Phase of the) Revolution has Begun", Wired Magazine, Wired Ventures Ltd., p. (116-21; 150-2) (1994).

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Lewis; C.

ATTY-AGENT-FIRM: Burns, Doane, Swecker &amp; Mathis, L.L.P.

## ABSTRACT:

The present invention, generally speaking, provides a method of synchronizing information between a plurality of sites and a central location that solves number of potentially "thorny" problems of distributed database systems in an elegant and efficient manner. The first issue involves synchronizing different copies of an item on machines that are not continuously linked at which each copy may be changed independently. Rather than attempting to formulate a set of synchronization policies generally applicable to all items in all instances, synchronization policies are moved from the database engine to the items themselves. The second issue involves lifetime--knowing, given a complex set of interrelationship of items, when an item may be safely deleted. This problem is addressed by providing an interested party mechanism whereby items may "express interest" in each other. When no item is interested in a particular item, that item may safely "go away".

11 Claims, 15 Drawing figures